

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addiese: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.wepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,428	05/05/2006	Wolfgang Barnikol	BARNIKOL-3 PCT	2824
25889 7590 02/06/2009 COLLARD & ROE, P.C. 1077 NORTHERN BOULEVARD			EXAMINER	
			HOBBS, LISA JOE	
ROSLYN, NY 11576			ART UNIT	PAPER NUMBER
			1657	
			MAIL DATE	DELIVERY MODE
			02/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/578.428 BARNIKOL, WOLFGANG Office Action Summary Examiner Art Unit Lisa J. Hobbs 1657 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 27 October 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 2 and 4-9 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 2 and 4-9 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SZ/UE)
Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Art Unit: 1657

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file. Acknowledgement is made of the certified translation of the German priority document.

Claim Status

Claims 2, 4-9 are active in the case. Claims 1 and 3 have been cancelled by amendment.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 9, with dependent claims 2-5 and 7-8, is again rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "chemically modified" has been deleted and replaced with descriptions of two types of covalent linkages. The second, a Markush group of macromolecules is acceptable. The first, comprising any "reactive effectors" could have a number of meanings, including linkage to any biological or chemical molecule that effects some action in vivo. Page 9 of the disclosure was consulted, as cited by applicants in the response of 27 October 2008, but there is no further discussion of what the term "reactive effectors" encompasses. A brief search of the USPTO databases does not clarify the term, although it does appear to be a term of art in aerospace specifications. Clarification of this

Application/Control Number: 10/578,428

Art Unit: 1657

description in the claim: "chemically modified by covalent linkage of reactive effectors" is requested in order to appropriately disclose the metes and bounds of the invention.

Claim Rejections - 35 USC § 103

The rejection of claims 2, 4-9 under 35 U.S.C. 103(a) as being unpatentable over Nho et al. (US 5,234,903) and Winslow (US 6,432, 918) in view of Grinstaff et al. (US 5,665,383) is withdrawn in light of the amendments to the claims.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPO 644 (CCPA 1962).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January I, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 2, 4-9 are again rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 14-16 of U.S. Patent No. 6,956,025. Although the conflicting claims are not identical, they are not patentably distinct from each other because both

Art Unit: 1657

sets of claims recite methods of treating patients in need thereof with crosslinked hemoglobin intravascularly in a physiologically compatible solution. While the instant application recites a hyperpolymeric hemoglobin and the '025 claims does not, the '025 patent does not specifically exclude a hemoglobin derivative which is crosslinked and in a multimer configuration (see claim 1).

Claims 2, 4-9 are again rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 15-17 of U.S. Patent No. 7,005,414. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims recite methods of treating patients in need thereof with crosslinked hemoglobin intravascularly in a physiologically compatible solution. While the instant application recites a hyperpolymeric hemoglobin and the '414 claims does not, the '414 patent does not specifically exclude a hemoglobin derivative which is crosslinked and in a multimer configuration (see claim 13).

Response to Arguments

Applicant's arguments filed 27 October 2008 have been fully considered but they are not persuasive. Applicants argue that the two patents do not teach overlapping subject matter because the instant application is drawn to administration of the hyperpolymeric hemoglobin, which is also crosslinked to other macromolecules and has a low oncotic pressure to a person with acute pulmonary edema and the other claims are drawn to administration of hemoglobin as an artificial oxygen carrier, as a blood substitute and an additive, and that no claims in the instant application are related to an oxygen carrier per se, but rather to a use thereof. However, the claims of all the applications recite methods of administering crosslinked hemoglobin in a

Application/Control Number: 10/578,428

Art Unit: 1657

nutrient/electrolytic solution which is covalently bound to selected macromolecules to patients in need thereof.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa J. Hobbs whose telephone number is 571-272-3373. The examiner can normally be reached on Hotelling - Generally, 9-6 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon P. Weber can be reached on 571-272-0925. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1657

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lisa J. Hobbs/ Primary Examiner Art Unit 1657

ljh